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In re Application of

Application Number

09-770,410

Filed

Jan. 25. 01

Paper No. 15

I hereby request access under 37 CFR 1.14(a)(1)(iv) to the application file record of the above-identified ABANDONED application, which is identified in, or to which a benefit is claimed, in the following document (as shown in the attachment):

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US 20020088753A1

(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2002/0088753 A1****Huber et al.**(43) **Pub. Date:****Jul. 11, 2002**(54) **METHOD AND APPARATUS FOR
SEPARATING POLYNUCLEOTIDES USING
MONOLITHIC CAPILLARY COLUMNS**(76) **Inventors: Christian Huber, Rum (AT); Herbert
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(21) **Appl. No.: 09/770,410**(22) **Filed: Jan. 25, 2001****Related U.S. Application Data**(63) **Non-provisional of provisional application No.
60/178,553, filed on Jan. 26, 2000.****Publication Classification**(51) **Int. Cl.⁷ B01D 15/08**
(52) **U.S. Cl. 210/656; 210/635; 210/198.2**(57) **ABSTRACT**

Methods and devices based on capillary monolithic columns, preferably consisting of an underivatized poly(styrene-divinylbenzene) monolith, for separating a mixture of polynucleotides by ion pair-reverse phase-high performance chromatography (IP-RP-HPLC). In various aspects of the method and device the monolith is characterized by one or more of the following: the monolith is contained within a capillary tube; the monolith is immobilized by covalent attachment at the inner wall of the tube; the tube is devoid of retaining frits; the monolith is characterized by having above 10,000 theoretical plates per meter and preferably above 200,000 theoretical plates per meter; the method uses a mobile phase which is devoid of EDTA; the monolith has a surface morphology that is rugulose or brush-like; the chromatographic surfaces of the monolith are non-porous; the monolith has channels sufficiently large for convective flow of the mobile phase; the monolith is formed from a polymerization mixture including underivatized styrene, a crosslinking agent, and a porogen, wherein the porogen includes tetrahydrofuran. The monolith can be incorporated into a miniaturized chromatography system which can be coupled to a mass spectrometer for on-line separation and mass determination of single- or double-stranded polynucleotides.



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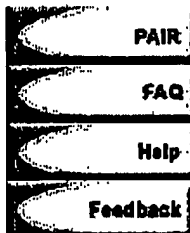
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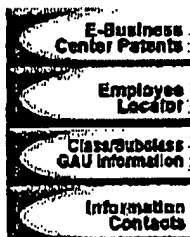


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#543434



Other Links



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Application Number:	09/770,410	Customer Number:	
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First Named Inventor:	Christian Huber, Rum, (AT)	Issue Date of Patent:	
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